

# Schottky Dual Diode

## **SBL2030CT**

30V / 20A

# DATASHEET

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OEM – General Semiconductor

Source: General Semiconductor Databook 1998

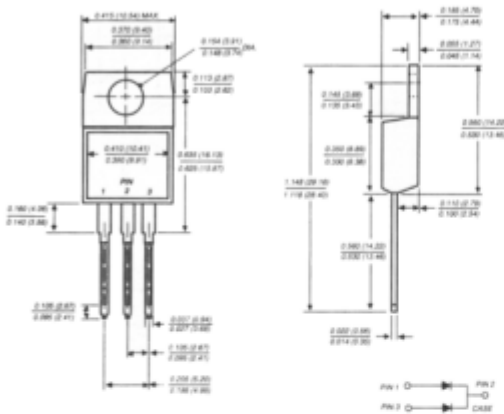
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# SBL2030CT AND SBL2040CT

## SCHOTTKY RECTIFIER

Reverse Voltage - 30 and 40 Volts Forward Current - 20.0 Amperes

### TO-220AB



Dimensions in inches and (millimeters)

### FEATURES

- ◆ Plastic package has Underwriters Laboratory Flammability Classifications 94V-0
- ◆ Metal silicon junction, majority carrier conduction
- ◆ Low power loss, high efficiency
- ◆ High current capability, low forward voltage drop
- ◆ High surge capability
- ◆ For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications
- ◆ Dual rectifier construction, positive center-tap
- ◆ Guardring for overvoltage protection
- ◆ High temperature soldering guaranteed: 250°C/10 seconds, 0.17" (4.3mm) from case



### MECHANICAL DATA

**Case:** JEDEC TO-220AB molded plastic  
**Terminals:** Leads solderable per MIL-STD-750, Method 2026  
**Polarity:** As marked  
**Mounting Position:** Any  
**Mounting Torque:** 5 in. - lbs.max.  
**Weight:** 0.08 ounce, 2.24 grams

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

	SYMBOLS	SBL2030CT	SBL2040CT	UNITS
Maximum repetitive peak reverse voltage	$V_{RRM}$	30	40	Volts
Maximum RMS voltage	$V_{RMS}$	21	28	Volts
Maximum DC blocking voltage	$V_{DC}$	30	40	Volts
Maximum average forward rectified current at $T_C=105^\circ\text{C}$	$I_{(AV)}$	20.0		Amps
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	175.0		Amps
Peak repetitive reverse surge current (NOTE 3)	$I_{RRM}$	1.0		Amp
Maximum instantaneous forward voltage per leg at 10.0A (NOTE 1)	$V_F$	0.55		Volts
Maximum instantaneous current at rated DC blocking voltage per leg	$I_R$	1.0	50.0	mA
Typical thermal resistance per leg (NOTE 2)	$R_{\theta JC}$	2.0		$^\circ\text{C/W}$
Operating junction and storage temperature range	$T_J, T_{STG}$	-40 to +125		$^\circ\text{C}$

**NOTES:**

- (1) Pulse test: 300µs pulse width, 1% duty cycle
- (2) Thermal resistance from junction to case per leg
- (3) 2.0µs pulse width,  $f=1.0$  KHz

**RATINGS AND CHARACTERISTIC CURVES SBL2030CT AND SBL2040CT**

